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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/435,315	11/04/1999	PAUL D. MARKO	XM-0014	5073

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EXAMINER

LEE, JOHN J

ART UNIT	PAPER NUMBER
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2684

DATE MAILED: 05/21/2004

14

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/435,315

Applicant(s)

MARKO ET AL.

Examiner

JOHN J LEE

Art Unit

2684

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 17-29 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 17-29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☒ Interview Summary (PTO-413)
Paper No(s)/Mail Date. 13.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.
2. Applicant's arguments with respect to claims 17 – 29 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 17, 19, and 21 – 29** are rejected under 35 U.S.C. 103(a) as being unpatentable over Izadpanah et al. (US Patent number 6,560,213) in view of Black (US Patent number 6,456,823).

Regarding **claim 17**, Izadpanah discloses that a satellite digital audio radio multipoint distribution system (Fig. 1 and column 3, lines 25 – column 4, lines 34).

Izadpanah teaches that a satellite antenna (4 in Fig. 1) for receiving a satellite digital audio radio signal (Fig. 1 and column 3, lines 6 – 55). Izadpanah teaches that a terrestrial repeater (4, 8 in Fig. 1) connected to said antenna (Fig. 1) for decoding said satellite signal and recording said signal into an MM-wave frequency satellite radio terrestrial broadcast format signal (Fig. 1, 4 and column 4, lines 35 – column 5, lines 36).

Izadpanah teaches that a system for distributing said recoded MM-wave frequency signal (Fig. 1, 4 and column 4, lines 35 – column 5, lines 36). Izadpanah teaches that plural

satellite digital audio radio service receivers (customers in Fig. 1) adapted to receive said recorded MM-wave signal from said distributing system (4 in Fig. 1) and provide an audio or visual output signal in response thereto (Fig. 1, 4 and column 4, lines 35 – column 5, lines 36).

Izadpanah does not specifically disclose the limitation “recording said signal into an intermediate frequency (IF) satellite radio terrestrial broadcast format signal and a system for distributing said recoded IF frequency signal”. However, Black discloses the limitation “recording said signal into an intermediate frequency (IF) satellite radio terrestrial broadcast format signal and a system for distributing said recoded IF frequency signal” (Fig. 1 and column 2, lines 51 – 29, where teaches the terrestrial repeater (20 through 22) receives the multimedia signal (radio frequency) from video service (16) (satellite broadcast) and modulates and translates onto an suitable intermediate frequency and then broadcasts the IF signal (24 in Fig. 1) to customers). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Izadpanah as taught by Black. The motivation does so would be to achieve high quality satellite multimedia broadcasting service for customers in satellite broadcast system.

Regarding **claim 19**, Izadpanah discloses that the format is multi-carrier modulation (Fig. 1, 4 and column 4, lines 35 – column 5, lines 36).

Regarding **claim 21**, Izadpanah discloses that each of said plural receivers includes a respective user interface to allow for channel selection and audio processing (Fig. 1, 4 and column 4, lines 35 – column 5, lines 36).

Regarding **claim 22**, Izadpanah discloses that a channel decoder integrated circuit adapted to receive said recoded signal and provide a digital bitstream output in response thereto (Fig. 1, 4, 6 and column 6, lines 14 – 60).

Regarding **claim 23**, Izadpanah discloses that a source decoder digital signal processor adapted to receive said digital bitstream and provide said output signal in response thereto (Fig. 1, 4, 6 and column 6, lines 14 – 60).

Regarding **claim 24**, Izadpanah discloses that the distribution system is a cable distribution system (Fig. 1, 3 and column 3, lines 31 – column 4, lines 34).

Regarding **claim 25**, Izadpanah discloses that the distribution system is a wireless distribution system (Fig. 1 and column 2, lines 63 – column 3, lines 24).

Regarding **claim 26**, Izadpanah discloses that the distribution system is a fiber-optic distribution system (Fig. 1, 3 and column 3, lines 31 – column 4, lines 34).

Regarding **claim 27**, Izadpanah and Black disclose all the limitation, as discussed in claim 17.

Regarding **claim 28**, Izadpanah and Black disclose all the limitation, as discussed in claim 17.

Regarding **claim 29**, Izadpanah and Black disclose all the limitation, as discussed in claim 17.

5. **Claims 18 and 20** are rejected under 35 U.S.C. 103(a) as being unpatentable over Izadpanah in view of Black and in further view of Marko et al. (US Patent number 6,154,452).

Regarding **claim 18**, Izadpanah and Black disclose all the limitation, as discussed in claim 17. However, Izadpanah and Black do not specifically disclose the limitation “the recorded signal is an XM radio terrestrial frequency multi-carrier modulated signal (XM radio format)”. However, Marko discloses the limitation “the recorded signal is an XM radio terrestrial frequency multi-carrier modulated signal (XM radio format)” (Fig. 1, 3, 16, column 7, lines 41 – column 9, lines 15). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the systems of Izadpanah and Black as taught by Marko. The motivation does so would be to improve broadcasting service for high quality signal reception in satellite broadcast system.

Regarding **claim 20**, Izadpanah, Black, and Marko disclose all the limitation, as discussed in claims 17 and 18.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Martin et al. (US Patent number 6,061,562) discloses Wireless Communication Using an Airborne Switching Node.

Elliott (US Patent number 6,618,384) discloses Integration of ATM Edge Switch with Access Device.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
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Art Unit: 2684

or faxed to:

(703) 308-9051, (for formal communications intended for entry)

Or:

(703) 308-6606 (for informal or draft communications, please label
"PROPOSED" or "DRAFT").

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **John J. Lee** whose telephone number is **(703) 306-5936**. He can normally be reached Monday-Thursday and alternate Fridays from 8:30am-5:00 pm. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, **Nay Aung Maung**, can be reached on **(703) 308-7745**. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700.

J.L.
May 10, 2004

John J Lee



NICK CORSARO
PATENT EXAMINER